

## CLAIMS

What is claimed is:

1. A linear compressor, comprising:
  - 5 a mover reciprocating together with a piston to compress a refrigerant; and
  - a stator generating a magnetic field to interact with the mover, the stator comprising a core provided with an opening at outside thereof, two extended parts extended
  - 10 inward from both ends of the opening of the core to cover portions of the opening and to be spaced apart from each other, and a coil wound in a space inside the two extended parts and a space between the two extended parts.
- 15 2. The linear compressor as set forth in claim 1, wherein the coil is wound in a shape corresponding to shapes of the two extended parts.
- 20 3. The linear compressor as set forth in claim 2, wherein the two extended parts has opposite ends that are inclined to approach each other at outside edges thereof.
- 25 4. The linear compressor as set forth in claim 2, wherein the two extended parts has opposite ends that are each shaped in a semicircle.
5. A linear motor, comprising:
  - 30 a stator comprising a second core provided with an opening at outside thereof, two extended parts extended inward from both ends of the opening of the second core to cover portions of the opening and to be spaced apart from each other, and a coil wound in a space inside the two extended parts and a space between the two extended parts;

a first core; and  
a magnet reciprocating between the stator and the  
first core.

5       6. The linear motor as set forth in claim 5, wherein  
the coil is wound in a shape corresponding to shapes of the  
two extended parts.

10      7. The linear motor as set forth in claim 6, wherein  
the two extended parts have opposite ends that are inclined  
to approach each other at outside edges thereof.

15      8. The linear motor as set forth in claim 6, wherein  
the two extended parts have opposite ends that are each  
shaped in a semicircle.